



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<http://www.rars.org/public-service.php>

frequently for our 2015
ham public service
schedule.

Also see [page 19](#) for more info.

RARS General Meeting

Topic: Uninterruptible power supplies (UPS) By
Mike Jackson from Eaton Corporation

See [page 5](#) for information about Eaton

Before Mike Jackson's presentation, Paula
Lipford will go over the MS Bike Ride public
Service event.

Date: August 11, 2015

Time: Meeting at 7:30 p.m.

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

President's Message

I'm writing this in Montreal – I think it is hotter here than in Raleigh. I'll be back in time for the RARS Member Meeting. Thanks to Tom N4TL and the Board for holding down the fort. The summer heat is tough on Amateur Radio, that's why it is a good time to get involved Community Service activities. John AI4RT and his bunch have some events that rely on Amateur Radio Operators to

[Continued on page 3](#)

RARS Officers

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.640 & 443.625 (88.5 PL)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSFest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit www.rars.org for more information.

President's Message continued

help with their communications. Go to the Community Service section of the RARS website and see when you can help. It's time to renew your membership. Take a minute now and get that done. Our Treasurer Greg KE4PAX would appreciate it – the [RARS website](http://www.rars.org) has payment options.

Stay cool (you're always cool if you are an ARO).

73,

Murray, K4MHM

Amateur Radio, pass it on.

Education Director

The Technician Class course ended Aug 1 and the General Class course starts Aug 8. The Amateur Extra Class course will start Oct 3 and the official announcement will come out shortly.

73,

Murray, K4MHM

RARS August Birthdays

| | | |
|-----------|--------|-------|
| Angi | KM4JPW | 08/02 |
| Rebel | KM4JEG | 08/05 |
| Lee | AK4XZ | 08/05 |
| Clement | KD4BMA | 08/08 |
| Philip | NC4UK | 08/09 |
| Buddy | KG4BBL | 08/09 |
| Andy | AA9P | 08/10 |
| Jeff | KM4JEF | 08/10 |
| Sharon | KM4JEZ | 08/12 |
| Ross | K7RAG | 08/14 |
| Manny | K4KBM | 08/14 |
| Paul | AE4MN | 08/15 |
| Bernard | W4BRB | 08/17 |
| Jay | KM4JPQ | 08/17 |
| Matt | KV4LM | 08/18 |
| Mike | KM4BJV | 08/18 |
| Bonnie | KK4OAK | 08/19 |
| Elizabeth | KK4LND | 08/19 |
| Chuck | W3WZN | 08/19 |
| Al | KE4IHX | 08/20 |
| Mike | KM4DER | 08/20 |
| Ned | KK4VEM | 08/21 |
| Red | AC4QX | 08/21 |
| Mirl | W4WMA | 08/22 |
| Barry | KD4WTI | 08/22 |
| Chip | KE4NPS | 08/23 |
| Steve | KJ4BX | 08/23 |
| Jack | KI4YXK | 08/24 |
| Dick | AJ4UX | 08/24 |
| Cecil | KM4ARS | 08/24 |
| Jerry | KM4ARZ | 08/25 |
| Jason | KM4KRZ | 08/25 |

| | | |
|-------|--------|-------|
| Peter | KJ4MDY | 08/25 |
| Denny | W4DWC | 08/27 |
| Don | N8DDK | 08/27 |
| Mike | KK4ETS | 08/30 |
| Dan | KD4AGQ | 08/31 |
| Sarah | KJ4WZD | 08/31 |

RARS New Members

| | |
|------------------|------------------|
| Scott Morris | KG4ZYA |
| Christina Weaver | KK4ETU |
| Beth Rabenda | N2IVG |
| Marv DiegmueLLer | KM4MDY |
| Rob Cox | Waiting for Call |
| John Lawler | Waiting for Call |
| Quentin Fanelli | Waiting for Call |

Antipodal Location

Paul, AD4IE, with the Carolina DX association, sent information on an Antipodal location finder website.

Find the opposite side of the Earth from any location:

[http://
www.findlatitudeandlongitude.com/
antipode-map/#.VbDga IViko](http://www.findlatitudeandlongitude.com/antipode-map/#.VbDga IViko)

Drag the map around and watch what happens.

Thanks Paul.

Eaton Corporation

Eaton is a global technology leader in power management solutions that make electrical, hydraulic and mechanical power operate more efficiently, reliably, safely and sustainably. Eaton's Power Quality Division is a leading global provider of backup power UPS, Uninterruptible Power Supply. Eaton UPSs are designed to deliver high quality backup power from desktop PCs to large, enterprise data centers. Eaton's Power Quality portfolio is rounded out with rack Power Distribution Units (ePDU), IT enclosures (racks), airflow and cable management, surge suppression and industry leading management software for virtual environments.

[Information from Eaton's website](#)

Eaton is a 100 year old company that has over one hundred and two thousand employees worldwide. They have many products in the areas of Electrical, Hydraulics, aerospace and vehicle items. Eaton employs thousands in the Carolinas across 18 different manufacturing locations including:

- Uninterruptible Power Supplies – Raleigh & Youngsville NC
- Switchgear and Panelboards – Morrisville & Arden NC
- Busway and Circuit Breakers – Greenwood SC
- Clutches – Charlotte NC
- Brakes – Roxboro, NC
- Relays and Industrial Controls – Fayetteville NC & Sumter SC
- Transmissions – Kings Mountain NC

The Eaton website listed above has a list of possible power problems. Click on Power Problems near the top to see the list. The presentation for August 11, 2015 will be about uninterruptable power supplies (UPS) given by Mike Jackson from Eaton.

DX Information

There will be a Willis Island DXpedition in November of 2015 . See their [website](#) for more information.

2015 Hamfests and conventions

08/08/2015 | [17th Annual Cape Fear Amateur Radio Swapfest](#)

Location: Fayetteville, NC

Type: ARRL Hamfest

Sponsor: Cape Fear Amateur Radio Society

Website: <http://www.cfarsnc.org/>

09/05/2015 | [Roanoke Division Convention \(Shelby Hamfest\)](#)

Location: Shelby, NC

Type: ARRL Convention

Sponsor: Shelby Amateur Radio Club

Website: shelbyhamfest.org

09/25/2015 | SEDCO W4DXCC

Location: Pigeon Forge, TN

SEDCO DX Convention

Website: www.w4dxcc.com/index.html

10/03/2015 | [Rock Hill \(SC\) Hamfest](#)

Location: Rock Hill, SC

Type: ARRL Hamfest

Sponsor: York County Amateur Radio Society

Website: <http://www.rockhillhamfest.com>

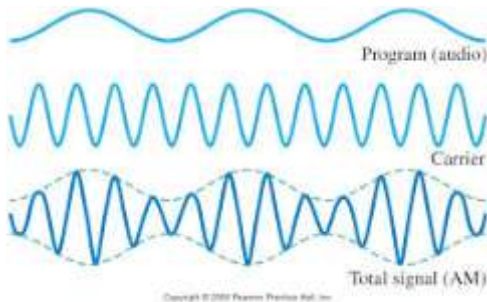


New HAM / Elmer meeting, 6:00
p.m. before the member meeting

*Tadd Torborg, KA2DEW, Elmer
Coordinator*

*The New Hams meeting is held
every month before the regular
RARs meeting. We'll try to start by
6pm. We try to address topics in a
manner that will be of help to hams
in their first year of operation.*

*Tadd / KA2DEW
tadd@mac.com
Raleigh NC FM05pv*



The Tar Heel Scanner/ SWL SIG

The Tar Heel Scanner/SWL SIG group met on July 20th at Red Hot and Blue restaurant on Falls of Neuse Road in Raleigh. Ten people attended.

Curt Philips, W4CP, gave a presentation of the RARS field day. This included the setup, operating and experiences with a storm that came through the area.

Curt also kicked off a group project. We will be coming up with lists of agencies to monitor during a given emergency. The group has begun to work coming up with a list of specific emergencies and some common agencies to monitor during any emergency.

Work on the lists will continue at future meetings and on the Yahoo group.

As always, people at the meeting enjoyed discussing radio news and interests.

The next meeting will be held on August 17 at Red Hot and Blue. We'll meet for a meal at 6:30 and the meeting will begin at 7:30 and end at 9:00. For more information and announcements for the upcoming meeting, see the [Tar Heel Scanner / SWL SIG Yahoo group](#).

73, Kelly, AE4FG

The ARRL Contest update

The [*ARRL Contest Update*](#) is published every other Wednesday (26 times each year), by the American Radio Relay League, The national association for Amateur Radio. It is sent via email.

Just to let everyone know, there is more in the ARRL Contest Update than just contest information. There is a section about “News, Press Releases and General Interest”. There also is a section called “Technical Topics and Information”. Here is a list of the technical topics from the July 29, 2015 issue.

Researchers found a Weyl of a signal! Weyl points, a concept involving topological monopoles, were until recently only theoretical. [MIT researchers detected their existence in the physical world](#). They were able to demonstrate their existence from microwaves to visible wavelengths. Their physical manifestation could lead to more interesting ways to manipulate microwave energy.

Here's another array of antennas for observing the universe, this time down-under, forming the "[most powerful telescope in history](#)."

Power measurement can be difficult, especially at higher frequencies, or when the waveform is complex. "[Pondering Power Measurements](#)," by Joseph Carnak and published in May 2015's *High Frequency Electronics*, provides a survey of the types of power measurements and where they apply.

If you're an IEEE member, you may enjoy a recent article by Robert Caverly, WB4PWZ: "[MRI Fundamentals](#)" in *IEEE Microwave Magazine*, July 2015. This article provides a very detailed description, and is written for technical readers.

Using an inexpensive USB DVB-T dongle combined with a quadrifilar helix antenna, you can [receive weather pictures from NOAA satellites](#) on your computer. The USB DVB dongles can also be used in a number of other projects, as was mentioned in the last Contest Update.

Need a PVC enclosure for your project? You can [use PVC post covers available from your hardware or home improvement store](#) to build them.

Max Maxfield, an Electronic Engineering Times editor, poses the question "[What's the best way to store Morse Code dashes and dots in C](#)." Some of the answers are really two-bit.

Some software [details about the \\$9 small-form-factor Linux computer](#), called the CHIP, were recently released. There's been a great uptake of Arduino and Beagleboard/Beaglebone computers for ham-related projects in the last few years, perhaps this one will get folks building as well!

73 Tom, N4TL

2013 Collins Collectors Association Signal Magazines now available on the CCA open site

During the 80th anniversary of Collins Radio (2013), the CCA printed four special edition quarterly SIGNAL Magazines that were mailed to our members. These magazines were highly praised as we made an attempt at documenting the four phases of Collins' history (Pre-war, War, Post War and Post Rockwell) in the four magazine issues. Together, these four issue represent over 170 pages of Collins history and perspective.

Our policy is to make these SIGNAL



magazines (all issues) available to the general public after a two year waiting period to respect the fact that this magazine is one of the significant CCA member benefits.

The 2013 anniversary issues are now available for reading or downloading and printing at your convenience - free of charge. We do this in the interest of fostering one of our significant goals, which is the documenta-

tion and dissemination of the history of Collins, its technology and its people.

Take a look at these issues and enjoy.



Together they tell a wonderful American success story that continues today. They can be found at <http://www.collinsradio.org/signal/>. And, if you are not a member, in addition to enjoying, perhaps you may find membership in the CCA a way to support your hobby and our efforts. The current magazine comes along for the ride when you do that - along with some other nice benefits and discounts.

Best_Regards,
Bill Carns, N7OTQ (Trustee K0CXX)
Past President, Collins Collectors Association

This was copied from an email From Bill Carns and used with his permission. Check this out.

<http://www.collinsradio.org/fifi/>

Amateur Radio **General Class** License Course
Raleigh Amateur Radio Society
RARS.org

Original Announcement Date: July 13, 2015

A four session **General Class License Course** (Level 2) will be conducted by the Raleigh Amateur Radio Society. To earn a specific license, one must pass that level exam plus pass all exams below that level. In this case, the Technician exam and the General exam must be passed before the General Class license can be awarded.

When: Aug 8, 15, 22, 29. The sessions will begin at 8:00 a.m. and end around 12:30 p.m.

Where: Raleigh, NC. Specific location will be provided upon pre-registration.

Volunteer Instructor: Mike Murphy, WA4BPJ, has an Extra Class license and has been teaching since the 1970s and has conducted as many as 60 courses. In addition to this course, he also teaches the Technician and Amateur Extra courses.

Tuition: \$10.00 (payable at the first session)

Course Text: The required manual is the current edition of: The **ARRL Ham Radio License Manual - Level 2 General, 7th Edition** (ISBN: 978-0-87259-811-9) and is available online (i.e. ARRL, Amazon, etc.).

Examination: An optional examination is scheduled for the student's convenience in the afternoon of the last session. The exam is conducted by the RARS Volunteer Examiners. There is a separate fee.

Pre-Registration: E-mail me with your **phone number** and **call sign**. A registration form and other details will be e-mailed to you.

This course is also listed on the ARRL Website at "Find a Class."

Next Course: Amateur Extra (7 sessions) is tentatively scheduled to start: Oct 3.

You are probably on a contact list. E-mail me if you want to be deleted from this list.

Murray Merner, K4MHM
RARS Education Director
Education@rars.org
919-803-7973

July General RARS meeting.

During the July 14, 2015 RARS General meeting Tad Torborg, KA2DEW gave a presentation about the Raspberry Pi. He used a power point presentation with a half dozen slides talking about the history of packet radio and the different variants that exist to-day. Then he went on to the network several RARS members and he has been building using the Raspberry Pi.



Tadd with the demonstration equipment



The demonstration connections



Some of the equipment



Tadd explaining the demonstration

Minutes

Raleigh Amateur Radio Society Board of Directors Meeting June 16, 2015

Present: Bob K4YXM, Murray K4MHM, Joanne AK4RJ, Chuck K4HF, Raymond KK4OOQ, Tom N4TL, Greg KE4PAX, Dennis NC4DK

Regrets: Karl W4CHX, Hank K4HM, Marty W4MY

Guest: Alan AB4OZ

1. Call to order (Murray K4MHM): The meeting was called to order at 7:05 pm.
2. A quorum was present
3. There was no change to the agenda.
4. Approval of minutes (Murray K4MHM): The minutes of the May 19th meeting were approved.
5. Vice President's report (Tom N4TL): Tom reported that the July presentation will be by Tadd KA2DEW discussing Raspberry Pie.
6. Treasurer's report (Greg KE4PAX): Greg reported that RARS has 422 members, of these, 62 are complimentary memberships. If any member has questions, they should contact Greg KE4PAX or Murray K4MHM. Greg will miss the July general meeting. Bob volunteered to collect dues money at the meeting.
7. Secretary's report (Bob K4YXM): No report
8. Committee reports:
 - a. Public Service Director (John AI4RT): No Report
 - b. Education Director (Murray K4MHM): General class is finished. There were six students who took and passed the General exam. A Tech class will start in July. Six students have been pre-registered so far.
 - c. Public Information Officer (Charles KM4AMT): Charles is continuing to work with Dennis on field day flyer and press release.
 - d. Immediate Past President (CJ NC4CJ): No report.
 - e. Director-at-Large (Bill AK4BL): No report
 - f. Director-at-Large (Raymond KK4OOQ): No Report
 - g. ARRL liaison Chuck K4HF: The FCC has requested that congress authorize that Vanity calls not require a fee to renew.
 - h. ARRL NC Section Mgr. (Karl W4CHX): No report.

- i. Scouting Coordinator (Charles KM4AMT): Charles and Murray have both been trained as merit badge counselors. Murray has permission to set up a JOTA station in October at the council office.
 - j. FM Repeater Chair (Karl W4CHX): In a written report Karl stated that he feels satisfactory progress is being made on getting the repeaters ready for installation.
 - k. Exciter Chair (Tom N4TL): Needs input by July 4th.
 - l. Food Service Chair (Joanne AK4RJ): No Report
 - m. Webmaster (Hank K4HM): Hank submitted a written report summarizing his activities converting older pages to the newer format and deleting outdated files.
 - n. RARS Fest: (vacant): Chuck K4HF reported that we still do not have a firm date for 2016 RARS-Fest.
 - o. Field Day Chair (Dennis NC4DK): Dennis feels we have a good group put together for Field Day. Most likely we will be an eight Alpha station. He reviewed food plans which are different from last year.
 - p. North Carolina QSO Party (Marty W4MY): All matters for NCQP2015 have been completed. The committee vacancy has been filled by Alan Knight AA4FU of Cary.
 - q. W4DW/W4RNC Trustee (Jeff AC4ZO): No report
 - r. Net Manager (Mary KG4OQA): No report
9. Old business:
- a. Job Descriptions: Murray asked that board members send in their job descriptions.
 - b. Club Logo: Dennis reported on his work on developing a club logo. We will make a decision on a club logo at the July board meeting.
 - c. Club shirts: Action on club shirts will be deferred until a logo is selected.
10. New business:
- a. Nomination Committee: Chuck K4HF reviewed the process for appointing a nominating committee and how it will operate.
 - b. Awards committee: Chuck K4HF reviewed the process for operation of the "Awards Committee".
 - c. Financial Review Committee: The committee will be composed of Greg KE4PAX, Bob K4YXM and Raymond KK4OOQ. The group will meet in August.
 - d. Review of Donation Policy: Murray K4MHM has a new exception the consensus was that the president be given the description to make the \$50 donation elsewhere. Murray will include this in the policy.
 - e. Present by electronic device: Discussion will be continued at next meeting.
 - f. Member Survey: Deferred.
11. Adjournment (Murray K4MHM): The meeting was adjourned at 9:25 pm.

Respectfully submitted,
Bob Chew, K4YXM
RARS Secretary

MINUTES

Raleigh Amateur Radio Society General Membership Meeting July 14, 2015

1. Call to order: Murray K4MHM called the meeting to order at 7:27 PM. There were 44 members in attendance which constituted a quorum.
2. Approval of minutes. The minutes of the general membership meetings of June 9, 2015 were approved as presented.
3. Introduction of new members and guests. Nathan KM4DVE, Gregory KB4NIC and Joe KDOVTI
4. Health and Welfare: No report.
5. Secretary's report (Bob K4YXM) no report
6. Treasurer's report (Greg KE4PAX): Greg was not present. Murray read his report. We currently have 280 members. People were reminded to renew their membership.
7. Vice President's report: No report.
8. Reports and announcements from RARS Board members and others:
 - a. Public Service: In John's AI4RT absence, Murray asked people to go to the RARS web site, review upcoming events and sign up.
 - b. Education: Murray reported that the Tech class has started. A General class is scheduled to start on August 8th and an Extra class will begin on October 3rd.
9. Gift Raffle: Winners were: Frank KY4W and Henry WB2AGA.
10. Program: Tadd KA2DEW presented his work using a Raspberry PI processor as a part of local digital network.
11. Adjournment: The meeting was adjourned at approximately 8:50 PM. Murray asked all new members to come to the front of the room so all could greet them personally.

Respectfully submitted,

Bob K4YXM

RARS Secretary.

For shortwave listeners.

I received an email about WTWW from the C.Crane company. I tuned to 5085 KHz and heard the station. I edited the email below for those interested in radio. I am putting this here for those who are interested in shortwave, not for C.Crane or Art Bell.

WTWW: Art Bell is back and he's broadcasting on Internet radio, shortwave and even some regular radio stations! What a wonderful unorthodox blend! Where can you hear him? You can listen to Art on shortwave station [WTWW](#) at 5085 KHz. It puts out a powerful signal so those beyond any services can hear him. Art Bell is on live from 9pm-12pm Pacific Time and his new show has all the signs of a great ride and the future is downright bright and mysterious at the same time.

Future RARS 2015 Meeting Topics

September 15, 2014 World Radiosport Team Championship

By Nate Moreschi, N4YDU, President of PVRC-NC

October 13, 2015 RARS Officers nominations
& RARS Auction

November 10, 2015 RARS Officers election and Show and Tell.

Titles, topics, and speakers subject to change.

Current Public Service Opportunities

To volunteer for a Public Service event please complete the form at

<http://www.rars.org/public-service.php>

The Ham Public Service Net meets on Wednesday at 7:30 pm on the Carolina 440 Link System. We use the following repeaters:

441.725(+)(100) – Raleigh, NC Hub

443.450 (+)(100) – Cane Mt., Snow Camp, NC

444.325 (+)(100) – Holly Springs, NC

444.375 (+)(100) - Henderson, NC

444.550 (+)(100) – Coats, NC

444.775 (+)(100 – Cary, NC

444.875 (+)(100) – Wendell, NC

145.330 (-)(100) – Goldsboro, NC

442.250 (+)(107.2) - McCain/Southern Pines, NC

444.200 (+)(179.9) - Johnsonville, NC

444.025 (+)(100) - Benson, NC

442.425 (+)(100) - Buxton, NC

(The net is also accessible through IRLP Reflector 9210)

The Ham Public Service Yahoo Group link is: Ham Public Service North Carolina

BIKEFEST 2015

August 8, 2015 - Saturday - Hillsborough, NC

Scenic rural vistas along quiet country roads. Historic farmsteads and rustic churches. The pastoral heritage of the Piedmont. Experience all this on the Carolina Tarwheels' BikeFest Rural Heritage Tour. Tarwheels donates all proceeds, in excess of expenses, to bicycling related activities in our community. In 2013 we donated over \$16,000! Recipients include Triangle Trips for Kids, Lewis Days (bike restoration for children of need), Kidical Mass, the Special Olympics Cycling Team, and the Carrboro Bicycle Coalition.

Ham Volunteers are needed for SAGs, rest stop monitors and course safety.

* Ham Coordinator: John (ai4rt)

* Location: E. Margaret Lane & S. Cameron Street, Hillsborough, NC 27278

* Event Website: [Bikefest](#)

* Time: Operators Meeting 7:00 AM

* To Volunteer fill out the form at this [link](#).

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BABYMOON PASTA RIDE

August 15, 2015 - Saturday - Morrisville, NC

The date of this year's ride is August 15. We want you to know that we have read all of the feedback from last year's event and are having discussions around how we can improve upon in 2015 what was an outstanding inaugural event in 2014. Proceeds from the ride go to the National MS Society. And of course, the ride wouldn't be complete without delicious pasta from Babymoon Pasta Cafe!

We need ham volunteers for SAGs, rest stop monitors and course safety.

- * Ham Coordinator: John (ai4rt)
- * Location: d-Wise parking lot, 1500 Perimeter Park Dr., Morrisville, NC 27560
- * Time: Operators Meeting 7:30 AM
- * Event Website: [Babymoon](#)
- * **To Volunteer fill out the form at this [link](#).**

FIVE-O-RIDE

August 23, 2015 - Sunday - Raleigh, NC

We are pleased to be joining the new Life Time Athletic of Raleigh (8515 Falls of Neuse Rd) to bring you an exciting new venue for our 6th annual Five-0 ride. The ride benefits the Raleigh Police Memorial Foundation. The day's events will include breakfast prior to the ride, and our post-ride party including lunch and entertainment. Riders will have access to locker rooms and showers and each rider will receive a free Lifetime guess pass for full use of the entire facility at a time of their choosing other than event day.

50k or 100k options; cycling the beautiful open roads of Northern Raleigh and Wake County.

100K begins at 8am

50K begins at 9am

SAG vehicles and mechanical support on both routes

Fully stocked rest stops

Lunch served at end of ride

Helmets required and rules of the road and safety apply

We need ham volunteers for SAGs, rest stop monitoring and course safety.

- * Ham Coordinator: John (ai4rt)
- * Location: Time Life Athletic, 8515 Falls of Neuse Rd., Raleigh, NC
- * Time: Operators Meeting: 7:00 AM
- * **To Volunteer fill out the form at this [link](#).**

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2015 MS BIKE RIDE

September 12-13, 2015 - Saturday/Sunday - New Bern, NC

*** To Volunteer fill out the form at this [link](#).**

TOUR d'ORANGE

September 19, 2015 - Saturday - Hillsborough, NC

*** To Volunteer fill out the form at this [link](#).**

CFF CYCLE FOR LIFE

September 26, 2015 - Saturday - Raleigh, NC

*** To Volunteer fill out the form at this [link](#).**

NCBC FALL RALLY

October 18, 2015 - Sunday - Holly Springs, NC

*** To Volunteer fill out the form at this [link](#).**

..... Here are some events from our friends in the Charlotte area.... CHECK BACK OFTEN

I know most of what is discussed here is not from my part of the state, down near Charlotte, but I wanted to pass along some of our Public Service events as well - in case anyone happens to be traveling in the area and wants to help out, or maybe there are some members of the group from the area as well!

April - September:

CCTTA (Carolina Cycling Time Trial Association)

This event is held once a month at the Charlotte Motor Speedway. We run this event using a Simplex frequency and handhelds work great. The events normally start at 6:30 pm, so we need to be in place on the track by 6:00 pm.

August 5 (Wednesday – This is the Team Night Event)

September 2 (Wednesday)

October 17 - 18

MS Society Break Away to the Beach at Sunset Beach, NC

October 24

Cystic Fibrosis Cycling Event in Waxhaw, NC.

(Continued on page 19)

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The most versatile pieces of equipment for working as a ham volunteer during public service events are as follows:

PRIMARY EQUIPMENT

- * Dual band (144/440) 25 watt (min) mobile transceiver
- * A 1/2-5/8 wave well-grounded dual band mobile antenna

EXTRAS THAT ARE HELPFUL

- * Dual Band (144/440) hand held transceiver
- * Extra set of charged batteries
- * Ear phones & speaker mic or boom mic/headphone set
- * Higher gain antenna than the supplied rubber duck. For example Comet BN-24 or SMA-24 or Diamond RHF40 or SRH77CA. There are also many other hi-gain HT antennas available.

Remember to keep those batteries charged and earplugs handy and check back to this site and [Carolina Helping Hams](#) frequently for upcoming events. Hope to see you during one of the events.

73,
John - AI4RT

E-mail vs. email

[from Google] A few editorially conservative publications still prefer ***e-mail*** to ***email***, but most of the English-speaking world has adopted the unhyphenated form. In a Google News search covering 2011 and the start of 2012, there are approximately six instances of *email* for every *e-mail*, a dramatic shift from a couple of years ago. And the unhyphenated form is even more common outside news-writing.

Scouting

JOTA is Oct 18 and we could use some help. We still need some Subject Matter Experts. Contact Charles KM4AMT at: km4amt@arrl.net for either of these you would like to help with.

Murray, K4MHM

Upcoming Contests

2015 Rookie Roundup August 16, 2015.

The next Rookie Roundup will be Sunday, August 16, using RTTY. This is a great way to try out contesting in an event designed for newcomers. Hope to work you then! To pre-register teams or submit your score after the event, please visit the [Rookie Roundup](#) page hosted by Bruce Horn, WA7BNM.

2015 September VHF: September 12-14

Objective: For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada. [Click here](#) for a website with information on this contest.

*Note: Always check the official rules from the contest sponsor to find the actual dates. More information can be found at these websites.

www.arrl.org/contests www.hornucopia.com www.rars.org/ncqsoparty

<http://www.cq-amateur-radio.com>

RARS Classifieds

Copied from www.rars.org/classifieds.php

The items below were listed within the last 30 days on the RARS website.

Griffin PowerMate USB Multimedia Controller - shuttle wheel.

Posted August 2nd, 2015 by: N4TL

Contact: n4tl2@yahoo.com

This is available on line for \$35.99. My price is \$15.00.

Tom, N4TL, 919-870-9342, email is N4TL2@yahoo.com

Two 13.8 VDC Power Supplies

Posted July 15th, 2015 by: K4HF

Contact: k4hf@arrl.net

A GSC 13.8VDC 20A Peak Linear Power Supply, looks and works good \$45

A Dynacomm Commercial 13.8 VDC 70A Switching Power Supply with an Anderson Power Pole Distribution system. Very good condition. Asking \$95. Contact me by E Mail or (919)872-6555. Thanks, Chuck

Knight T-150 80-6 Meter AM/CW 100 Watt Transmitter

Posted July 15th, 2015 by: K4HF

Contact: k4hf@arrl.net

This vintage transmitter with two 6146 tubes works but has a few items that should be checked. VFO or Crystal Control. Tubes test good. Looks 9 of 10. No mike or key. Power Supply built in. Asking \$95. Contact me by E Mail, preferred, or (919) 872-6555. Thanks, Chuck.



Food Service Chair

Joanne Mars, AK4RJ and her helper

At-Large Director Bill Mars, AK4BL
